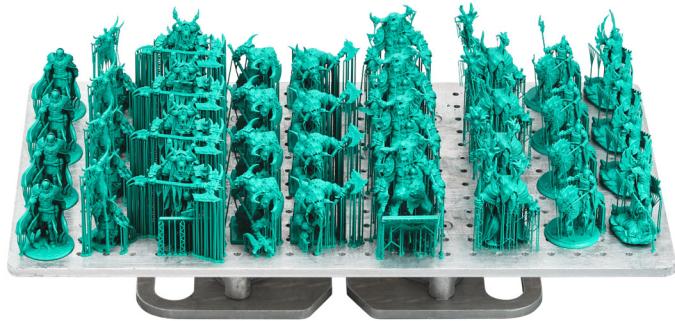


Technical Data

Photocentric



Daylight Magna Concept



SPECS

FEATURES

Magna Concept has been designed for creating high definition modelling parts especially for the Magna Printer. The printed parts will display a high tensile strength and durability, as well as a high accuracy and detail for the use in the modern figurine and modelling market. This resin will allow designers to display highly accurate and detailed models. In addition, the high print speed of this resin, will allow printers to try their designs and modify them quickly. The printed parts will display a smooth surface and a good surface finish. Moreover, patterns can be easily painted with an aerobrush. Key benefits include high tensile strength, high print speed, high accuracy, smooth surface, easy to use and finish.

PROCESSING INSTRUCTIONS

Follow the procedures laid out in your 3D Liquid Crystal's user manual. Polymer should be poured into the vat away from direct sunlight. Polymer can be reused but should be poured through a filter to remove solid lumps. Keep the Magna door closed to prevent accidentally curing resin. Liquid polymer is soluble in water and soap however we recommend Photocentric's Resin Cleaner, or IPA, followed by water. The cleaned objects should be post exposed at 70°C under UV for a minimum of 1 hour to obtain the maximum properties. Alternatively, the parts can be post exposed in clean warm water under UV for 1 hour.

IDEAL APPLICATIONS

- Figurines

DATA

Viscosity (At 25°C Brookfield spindle 3)	690cPs
Hardness ASTM D2240 (After post exposure)	92 Shore D
Tensile strength ASTM D638 (After post exposure, 1h UV)	61 MPa
Elongation at break ASTM D638 (After post exposure, 1h UV)	3.7 %
Young's modulus ASTM D638 (After post exposure, 1h UV)	2810 MPa
Impact strength notched Izod ASTM D256 (After post exposure)	1.97 kJ/m ²
Flexural strength ASTM D792 (After post exposure)	87 MPa
Flexural modulus ASTM D792 (After post exposure)	2060 MPa
Heat deflection temperature	85°C
Water absorption (24 h)	<0.2 wt%
Storage	10<t>50°C
Density	1.1 g/cm ³

AVAILABLE COLOURS

Green

Available in 5 kg bottles.

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Winner of Queen's Award: Innovation 2016 & International Trade 2018

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